

CLAIMS:

1. A hollow fiber membrane for blood purification having a integrally continuous structure from the inner membrane surface to the outer membrane surface, the membrane comprising a hydrophobic polymer and a hydrophilic polymer, and exhibiting a zeta potential on the inner surface thereof of greater than -3.0 mV but less than 0 mV at pH 7.5, when measured using a sample with an embedded resin on the outer side for allowing the electrolyte solution to flow through only the inside of the hollow fiber, and using a 0.001 mol/l potassium chloride aqueous solution as an electrolyte solution.

2. The hollow fiber membrane for blood purification according to claim 1, having:

(a) a polyvinylpyrrolidone sieving coefficient of 45% or more in a filtration test using a polyvinylpyrrolidone aqueous solution with a weight average molecular weight of 40,000,

(b) an albumin sieving coefficient of 0.6% or less in a filtration test using bovine serum,

(c) a protein adsorption amount of 65 mg/m² or less,

(d) breaking strength of 60 kg/cm² or more, and

(e) breaking elongation of 60% or more.

3. The hollow fiber membrane for blood purification according to claim 1 or 2, wherein the hydrophobic polymer is a polysulfone-based resin.

4. The hollow fiber membrane for blood purification according to any of claims 1 to 3, wherein the hydrophilic polymer is polyvinylpyrrolidone.

5. The hollow fiber membrane for blood purification according to claim 4, further having: (f) the polyvinylpyrrolidone concentration in the hollow fiber membrane of 3.0 to 5.0 wt%.

6. The hollow fiber membrane for blood purification according to claims 1 to 4, further having an overall mass transfer coefficient of phosphorus of 0.040 cm/min or greater.

7. The hollow fiber membrane for blood purification according to any one of claims 1 to 6, further having: (g) the thickness of the dense layer of 1 to 5 μm .

8. A blood purification apparatus comprising the hollow fiber membrane according to any of claims 1 to 7 installed in a cylindrical container having two nozzles for flowing a dialysate, the container having both ends fabricated with a potting material for separating the hollow inside of the membrane from the outside by a membrane wall and the container further having a header cap for flowing blood fitted on both ends.

9. The blood purification apparatus according to claim 8, wherein the hollow fiber membrane has the phosphorus clearance per membrane area of 1.5 m^2 of 180 ml/min or more.